

FORM 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY							
State: California							
DESCRIPTIVE REPORT.							
Sheet No. 4480							
LOCALITY:							
San Pedro Channel							
Los Angeles Harbor							
1925							
CHIEF OF PARTY:							



DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY Col. E. Lester Jones, Director.

DESCRIPTIVE REPORT OF HYDROGRAPHIC SURVEY OF
SAH PEDRO HARBOR SAN PEDRO CALIFORNIA

STEALER GUIDE MAY 1925

T J MAHER COMMANDING OFFICER Energy Hydrographic Sheet

for to the (San Pedro) Harbor, California.

The resurvey of the harbor of Los Angeles (San Pedro), California was made in pursuance of the Director's orders of May 2 1925.

- 2. The purpose of the survey was to locate and determine the least
- The sounding lines were run mostly on ranges, and soundings taken with lead lines, the corrections to which are shown in the record.
- 4. The survey of the area "A" to the northward of "Engineer's Beacon" on the San Pedro Breakwater was sounded, using hand lead, and the least depth found was 15 feet, rocky bottom. A wire drag was improvised and at 3:45 P.M. on May 15th, with drag set for 21 feet at each upright, the drag hung up on this 15 foot spot. Tidal reduction of 4.1 feet, gave height of wire below plane of reference as 17 feet. Sounding with lead line gave 19 feet or 15 feet when corrected for tide.

At 3:55 P.M., same day, the drag was set for 18 feet at each upright and passed clear of all obstructions, tidal reduction 4.2 feet showing no obstruction with less than 14 feet depth at mean lower low water. A check of the uprights of the drag at the end of the day showed the uprights to be about a half foot shorter than first measurements.

- 5. The area "B" around the temporary (C. & G. S.) buoy south of Weldt Rock Buoy was sounded with the hand lead, running radial lines to and from the buoy and showed no depth of less than 31 feet, tidal reduction applied.
- 6. On account of congested soundings in the areas "A" and "B" enlargements were made on a scale of 1:1000 and all soundings plotted. The characteristic soundings of area "A" were taken from the enlargements and replotted on the 1:5000 area.
- 7. The 15 foot spots shown on area "A" were of small extent. The lead evidently striking rocks about four feet higher than the level of the bottom around there. The harbor engineer states that this area shown on his charts, consists of irregular shale spots alternating with soft mud which was borns out by the soundings.
- 8. The area south of Red Beacon No. 2 shows a least depth of 25 feet near position 230 just south of a line from Beacon No. 2 to Breakwater Light House and about 275 yards from Beacon No. 2. The center of the area shows 26 feet as least depth with a large area of 27 feet sticky bottom.

Report by & D. Tomie. Runny by & R. Raymon Deray any of the Raymon and probably envaluation the survey of example the survey of the survey of

Statistics for Los Angeles Harbor sheet

Cy 13	a,	1	33	130	2.4	Motor	Sailor
14	ъ	1	111	5 36	7.0	11	Ħ
15	c	1	24	95	0.6	11	11
' 1 8	đ.	1	13 3	495	9.2	11	11
". 19	e	2	80	331	5.75	TT.	11

Remarks:-

Soundings are in feet.

Plane of reference, Mean Lower Low Water.

Tide gauge is Automatic Tide Gauge. Los Angeles Harbor (San Pedro) , Calif.

Tidal data furnished from Washington Office.

Plane of reference, reading on gauge = 3.5 feet.

Lowest tide observed " " = 3.1 (From data sheets)
Highest tide observed " " = 9.4 (From data sheets)

POSITIONS LOCATED BY SEXTANT CUTS. LOS ANGELES HARBOR SHEET. CALIFORNIA.

Engineer's Beacon	Lat. 33°	42*	D.M. 1019.8 meters
San Pedro Breakwater	Long.118°	16'	D.P. 1105.9 meters
Red Beacon No. 2.	Lat. 33°	431	D.M. 181.0 meters
Entrance to docks	Long.1180	16	D.P. 71.0 meters

Station:	Los al	igule	s Hack	or, 60	dil.	Year:	1925
Observers		J		Lat.	6	Long	
Time Meridian	1)	Tid	le Gauge No	. Scalo 1	t: Reduc	ed to Staff.	
Morati and a	d.		d.	. [d.	<i>t</i> . ;	d. j
Day May	7'	8	9	0	11	/2	/3 Hori- zontal
Series						!	Sum
Hoer Fat	52	6.2	7.5	8. 2	8.8	9.0	19.7
1 3 6	4.0	4.8	6.0	2./	7.8	8.8	1/2.1
2 3 2	32	34	4.4	1.8	6.6	7.9	34.5
3 3.2°	29	2.6	3.2	4.0	5.2	6.8	27.9
1 3 8	33'	2.7	2.5	3.0	4.0	5.6	24.9
5 51	43	33	26	2.5	3.2	44	25.4
1 6.4	5.3	4 6	3.3	2.5	2.8	3.6	28.5
73	6.8	5.8	4.4	3.0	2.9	3.2	33.4
8 7.8	7.6	6.8	5.2	4.2	3.6	3.2	38.9
0 7.6	8.0	7.4	6.5	5.4	4.7	3.8	43.4
10 7.0	26	7.8	7.4	6.4	5.6	4.6	46.4
11 6.0	6.9	7.6	7.4	7.7	6.5	5-6	47.1
Noon J.O	60	6.8	2.0	7.2	7./	6.4	15.5
13 4.4	52	6.0	64	6.8	7.2	7.0	43.0
11 4.2	46	53	5.8	64	7.1	73	40.7
15 4.8	46	5.0	13	58	6.6	7.2	39.3
16 5.8	34	J . 2	J2	5.6	6.2	7.0	40.4
17 7.0	6 4	€0	5.7	5.6	6.0	6.6	43.3
18 . 8 . 3	7 8	2.0	6.6	6.0	€ 2	6.3	48.2
19 9.2	8.9	83	7.7	6.8	6.5	6.2	53.6
20 9.6	9.6	9.4	8.8	7.8	7.2	6.2	58.€
21 9.0	97	9.9	96	8.2	7.9	6.5	61.8
22 8,0	9.0	9.8	9.2	92	8.6	7.0	61.3
23 65	7.9	9.0	9.3	9.2	8.9	7.6	58.4
Sum 147.6	150.2	150.9	148.0	144.3	1472	147.8	135.5
Sum for month of		dsor==(28d) r	72; (204) 696; (:) 744. Mean fo		100.5
abulated byC; _Z.	Baldion				a Lyon	 ·	1/23/25

TIDES: HOURLY HEIGHTS

Station: Lo	s. an	gelev	Harbo	r, baki	<i>(</i>	Year:	125
Observer:		0		Lat	Ų.	Long	
Time Meridian:		Tide G	auge No	Scale 1:	Reduced	I to Staff.	D 792
Month mo. d.	d.	d.	d.	a.	d.	; d.	
Day May 14	15	16	!			ہے ہ	U zontal Sum
Bay of Series							
Hour Feet 8.1	7.0	6.0 ·	Fret	Free	4.6	Feet	Fu: 40./
	!	66	5.2	4-6		38	
1 84	7.5		5-44	4.5	4.1		40.3
2 8.2	7.8	7.3	6.7	30	42	36	42.2
a 77	80	7.7	6.9	5-8	48	40	449
1 69	7.7	79	7.4	6.6	59	4.8	47.2
5 3.9	71	7.6	7.9	7.5	6.8	60	488
6 48	€ 3	7.0	7.8	7.9	7.6	70	48 4
7 3.8	5-3	6.2	7.3	80	8.0	77	463
\$ 3.3	43	5.5	6.5	7.4	7.9	19	12.5
0 3.1	36	4.2	3.6	6.6	71	7.6	37.8
10 『 3 ふ	3.8	3.6	46	56	62	68	336
11 4.2	36	3 ئ. 3	4.0	: 4.8	5.2	60	31.3
Noon JT/	44	40	7.0	4.3	4.6	5.6	32.0
13 4 6.0	<i>با</i> "ل	J-0	4.4	4.4	4.5	5.0	34.7
11 6.9	6 5	6.0	5.4	5.0	ه جی	4.8	396
15 7.4	7.3	70	6.5	6.0.	5.9	5.2	153
10 24	7.7	78	2.6	72	7.0	60	507
17 7.2	79	8.3	8.4	8.3	8.0	72	553
18 # 6.9	76	8.2	8.8	9.0	9.1	8#	58.0
10 6.5	7.1	8.0	5.6	90	94	9.2	57.5
20 6.2	€ 5 ⁻	7.2	8.0	36	90	9.5	55.0
21 1 6 0	59	6.4	7.0	7.8	8.0:	90	5-0.1
22 6.2	56	58	6.0	6.6	7.0	80	45.2
23 6.5	J 6	54		J .6	1 1		, i •
ا المرابع			52	5.6	26	6 6	40.5
·	490	15/.9	,	156.1	155.5	154.3	1067.6
Sam for month of bloods to the Sam for month of		sor = (28d) 672		04) 720; (31d) 5	M. Mega for	<u> </u>	1/23/85

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in 2 volumes of sounding records for

HYDROGRAPHIC SHEET NO.

Locality: Los Angeles Harbor, Calif.

Chief of Party: T. J. Maher in 1925.

Plane of reference is San Pedre 3.5ft. on tide staff at

For reduction of soundings, condition of records satisfactory except as checked below:

- 1. Locality and sublocality of survey emitted.
- 2. Month and day of month omitted
- 3. Time meridian not given at beginning of day's work.
- 4. Time (whether A. M. or P. M.) not given at beginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.
 6. Leadline correction entered in wrong column.
 7. Field reductions entered in "Office" column.

- 8. Location of tide gauge not given at beginning of each day's work.
- 9. Leadline corrections not clearly stated.
- 10. Kind of sounding tube used not stated.
- 11. Sounding tube No. entered in column of "Soundings instead of "Romarks".
- 12. Legibility of record could be improved.
- 13. Remarks.

Chief. Division of Tides and Currents.

Report on Ryd. Sheet 4450

Surveyed in 1925
Chief of Party - T. J. Maher
Surleyed by - L. P. Reynor
Protracted by - W. F. White and G. D. C
Conndengs patted by - G. D. C
Verified and inked by . H.Elleacture

The records comform to the requirements of the general instructions except that "touts' come by compass" readings were omitted throughout I. I'm plan and character of the development fulfil the requirement of the general instructions.

3. The plan and extent of the development satisfy the expecific instructions.

7. Sounding line crossings are adequets.

5. The would defich comes can be drawn

in the general instructions. Du Remarks.

7. With the exception of the respacing of counding to comopond to time interval, the office draft man did not have to do over any part of whe drafting down by the field party. See Remarks.

8. no further ourrying to required to july develope the area covered by this survey.

9. Remarke:

In subdivious area A the field draft.

man failest to plot all the practions and counding that fall within the corresponding area on the soos scale section. On several limes the spacing of sometimes had to be narranged to correspond with the time recorded.

In subdivision B. many changes were measury in the plotting of positions and most of the soundings in this area had to be respaced to correspond with the time intervals recorded.

11. Character and scope of enverying: Excellent.
b. Field trafting, Fair.

Respectfully submilled A. Elliac Ewan F. R. Retim. ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

AND REFER TO No. 4-DEM

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

December 17, 1925.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4480

Los Angeles Harbor, California

Surveyed in 1925

Instructions dated May 6, 1925

Chief of Party, T. J. Maher.

Surveyed by L. P. Raynor.

Protracted by W. F. White and G. B. Cowie.

Soundings plotted by G. D. C.

Verified and inked by H. E. MacEwen.

- 1. The records conform to the requirements of the General Instructions except that boats' courses were emitted.
- 2. The plan and character of development conform to the requirements of the General Instructions.
- 5. The plan and extent of development satisfy the specific instructions. Four 15 foot soundings were obtained on the position of the reported 16 1/2 foot spot and the area was cleared by a drag set at 14 feet effective depth.
- 4. The sounding line crossings are adequate and the information is sufficient for drawing the usual depth curves.
- 5. The usual field plotting was done by the field party. The work was well done except in the enlargements, where extensive changes in boats' positions and re-spacing of sounding lines to conform to time intervals were necessary.
- 6. No further surveying is required within the area covered by the sheet.
- 7. The character and scope of the surveying are excellent and the field drafting is fair.
- 8. Reviewed by E. P. Ellis, December, 1925.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4480 General locality . 7 . Loc Angeles Harber Locality San Pedro. Channel . . Date of survey May. 13 - 19, 1925. Protracted by W.F.W. &. G.D. CS oundings in pencil by G.D.C. Inked by . . G.D.C. . . . Verified by W.F.M. . Records accompanying sheet (check those forwarded): Des. report, ...Q. Tide books, ...Q. Marigrams, .1. Boat sheets, 2 Sounding books, Q. Wire-drag books, Q. Photographs. Data from other sources affecting sheet Triangulation. position from List of Geographic Positions furnished by office.

Remarks: